



METHYL PHOSPHONOTHIOIC DICHLORIDE

UN 1760

Shipping Name: Methyl phosphonothioic dichloride, anhydrous

Other Names: Methyl phosphorous dichloride
MPTD

WARNING! • DO NOT USE WATER! REACTS VIOLENTLY WITH WATER TO PRODUCE HYDROGEN CHLORIDE VAPOR!

Hazards:

- Severely irritating to skin, eyes, nose and lungs; prolonged contact with the skin will cause burns
- Fire fighting gear (including SCBA) does not provide adequate protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel
- Container may BLEVE when exposed to fire
- Vapors are heavier than air and will collect and stay in low areas
- Vapors may travel long distances to ignition sources and flashback
- Vapors in confined areas (e.g., tanks, sewers, buildings) may explode when exposed to fire
- Combustion products include toxic hydrogen chloride and sulfur oxides

Awareness and Operational Level Training

Response:

- Stay upwind and uphill
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- For container exposed to fire evacuate the area in all directions because of the risk of BLEVE
- Evacuate the immediate area and downwind for a large release
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

Description:

- Clear liquid
- Sharp, acrid irritating smell
- Sinks in water and reacts with water producing hydrogen chloride vapor and hydrochloric acid
- Very flammable
- Vapors are heavier than air and will collect and stay in low areas
- Freezes at -14° F

Operational Level Training Response:

RELEASE, NO FIRE:

- DO NOT USE WATER DIRECTLY ON PRODUCT; reacts with water to form toxic hydrochloric acid
- Stop the release if it can be done safely from a distance
- Prevent material and runoff from entering sewers and waterways if it can be done safely well ahead of the release
- Use large amounts of water well away from the material to disperse vapors - contain runoff
- Ventilate confined area if it can be done without placing personnel at risk

FIRE:

- DO NOT ALLOW WATER TO COME IN CONTACT WITH MATERIAL; if material is on fire, use dry chemical to extinguish; if water must be used, use it in flooding quantities
- If material is not leaking, cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (unvented container distorts, bulges or shows any other signs of expanding), withdraw immediately to a secure location

First Aid:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
 - ♦ Inhalation - remove the victim to fresh air and give oxygen if available
 - ♦ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
 - ♦ Eye - rinse eyes with large volumes of water or saline for 15 minutes
 - ♦ Swallowed - do not make the victim vomit
- Seek medical attention
- Toxic effects may be delayed
- For skin burns decontaminate with water and apply a clean dry dressing

CAS: 676-98-2